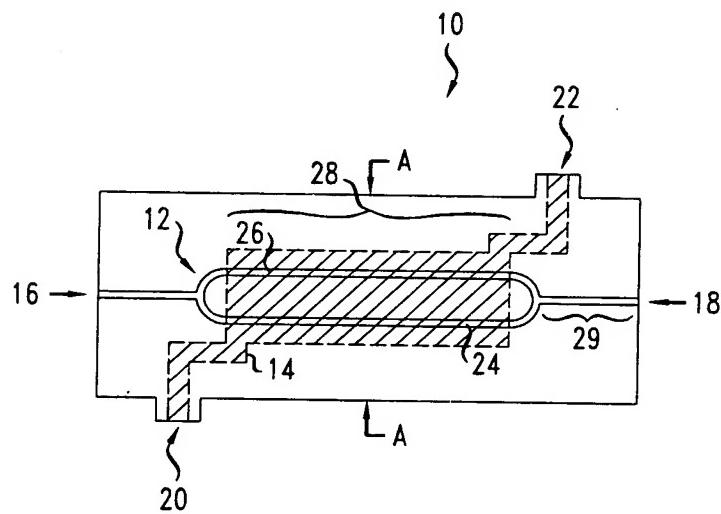




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FIG. 1





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FIG. 2

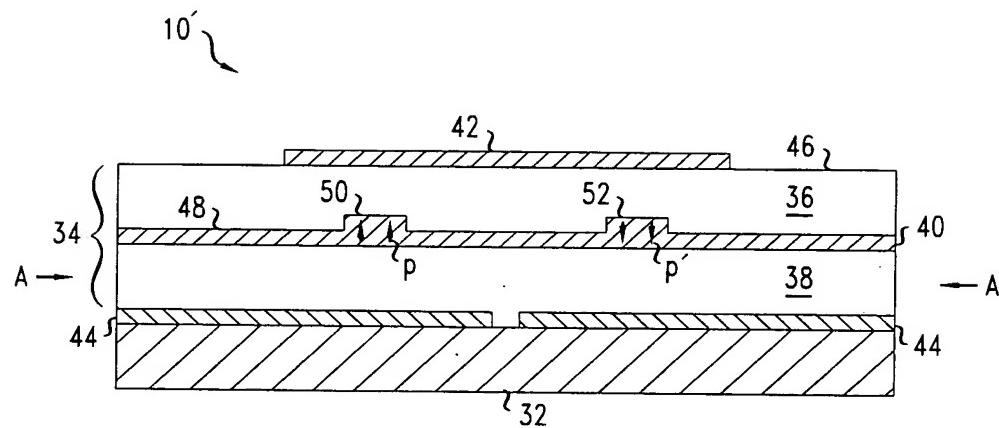
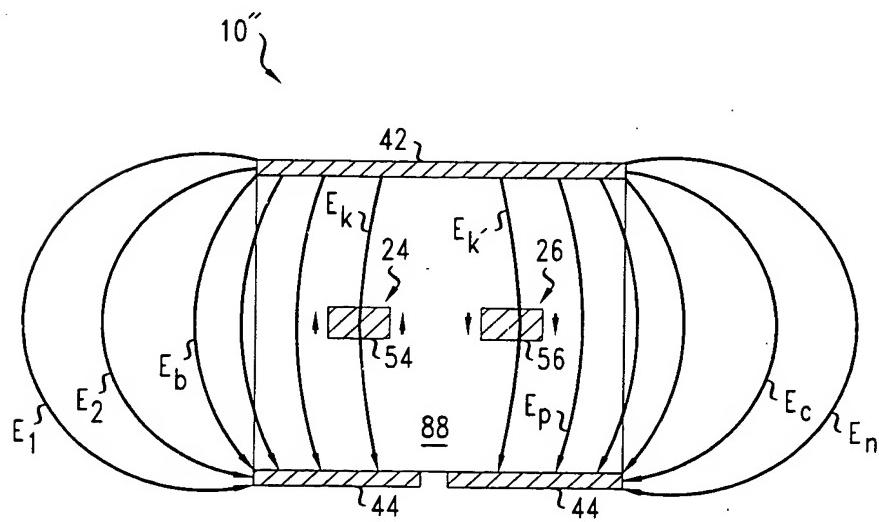


FIG. 3





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FIG. 4

70

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TRANSMITTING AN OPTICAL CARRIER WAVE TO AN OPTICAL
WAVEGUIDE OF A MODULATOR

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TRANSMITTING A CONTROL WAVE TO A CONTROL WAVEGUIDE
TO ELECTRO-OPTICALLY MODULATE THE VELOCITY OF THE
OPTICAL CARRIER WAVE IN THE OPTICAL WAVEGUIDE, THE
EFFECTIVE REFRACTIVE INDEX SEEN BY THE CONTROL WAVE
INSIDE THE MODULATOR'S DIELECTRIC BEING LARGER THAN
THE EFFECTIVE REFRACTIVE INDEX SEEN BY THE OPTICAL
CARRIER WAVE

76

INTERFERING THE MODULATED OPTICAL CARRIER WAVE
WITH ANOTHER MUTUALLY COHERENT CARRIER WAVE

78

TRANSMITTING THE INTERFERED WAVES TO AN
OPTICAL WAVEGUIDE

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FIG. 5 A

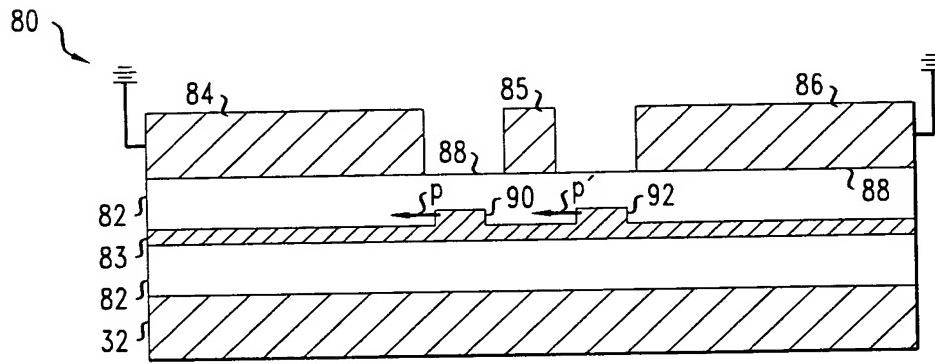
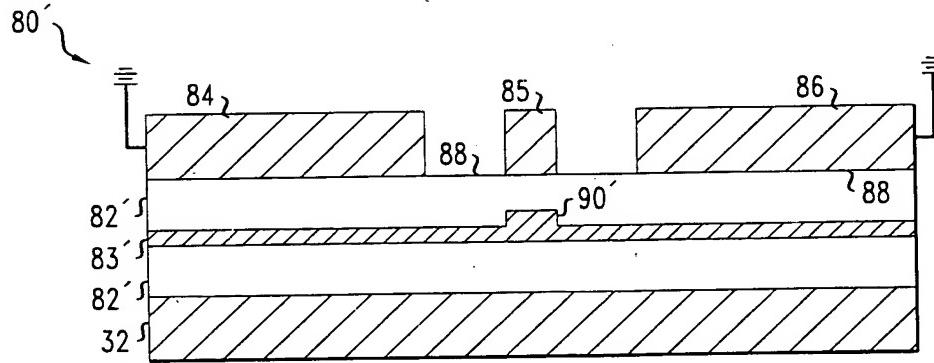


FIG. 5 B





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FIG. 6

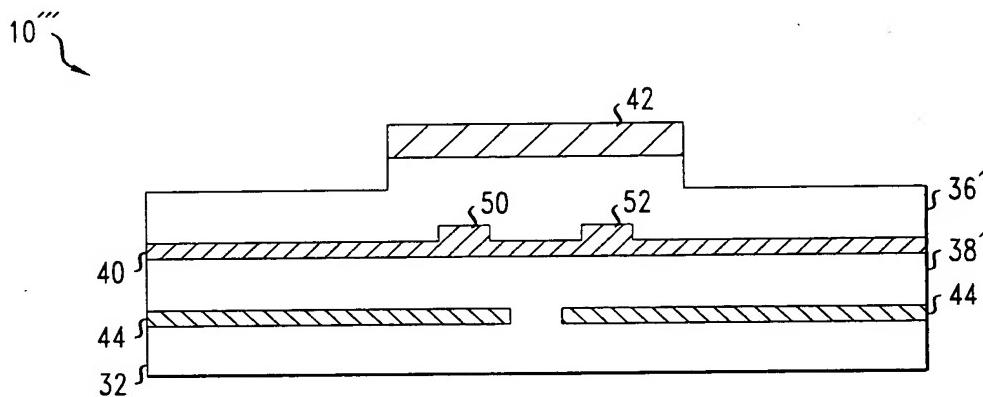


FIG. 7

